

H.323/SIP DECT VoIP router VIP-320

User's manual



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Revision

User's Manual for PLANET H.323/SIP VoIP Router:

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Chapter 1 Introduction

Overview

With years of Internet telephony and router manufacturing experience, PLANET proudly introduces the newest member of the PLANET VoIP gateway family: the VIP-320.

As a direct response to feedback from our customers, PLANET's new VoIP gateway, the VIP-320, not only provides quality voice communications, Internet sharing capabilities with other LAN users, but also offers DECT interface for daily wireless telephony communications. With advanced DSP processor and cutting edge VoIP technology, the PLANET VIP-320 is capable of handling both SIP and the H.323 calls. Up to 4 registrations to the SIP proxy or H.323 Gatekeeper, the VIP-320 is able to make calls to either H.323 or SIP voice communication environment. The VIP-320 is the ideal choice for Voice over IP communications and providing integrated Internet sharing features, such as Virtual server, SPI firewall protection, and DMZ support; with these features, users may now enjoy high quality voice calls and secure Internet access without interfering with routine activities. To bring the users most flexibility, the add-on RJ-11 interface for PSTN connection, users not only can make the daily PSTN communication, but also enjoy the convenience brought by VoIP communications.

With built-in DECT & GAP Compatible base, up to 8 DECT handsets can be registered on the VIP-320. The pan-European users can be benefit from the DECT interface, voice communications can be established from anywhere in the living space. The PLANET VIP-320 comes with an intuitive, user-friendly, yet powerful web management interface, no expertise required for the VoIP communications.

Firewall/Security Feature

- Built in NAT firewall, DoS (Denial of Service) protection
- SPI (Stateful Packet Inspection) firewall
- Policy-based LAN/WAN access control
- Virtual server, DMZ
- Remote administrator authentication
- Enable/disable VPN pass-through

VoIP Functions

- H.323 / SIP dual mode communication
- SIP 2.0 (RFC3261), H.323v3 compliant
- Peer-to-Peer / H.323 GK / SIP proxy calls
- Voice codec support: G.711, G.723.1A, G.729A

 Voice processing: Voice Active Detection, DTMF detection/ generation, G.168 echo cancellation (16mSec.), Comfort noise generation, Call progress detection, Gain Control

DECT Features

- GAP Compatible
- Base can register up to 8 Handsets
- Intercom call during external call, Call transfer between handsets, three-way telephone meeting
- CID 50 locations
- · Redial memory: 3 locations, 20 digits
- Adjustable ringer volume & melody
- 100 hours standby time, 8 hours talk time
- Hands-Free, Mute function
- Call duration time meter
- Transmitted distance: up to 50m indoor / up to 300m outdoor

Package Content

The contents of your product should contain the following items:

DECT VolP router

DECT handset

Power adapter

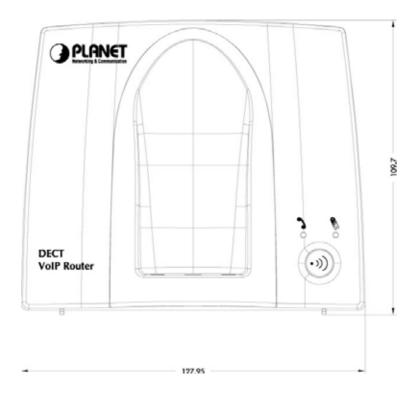
Quick Installation Guide

User's Manual CD

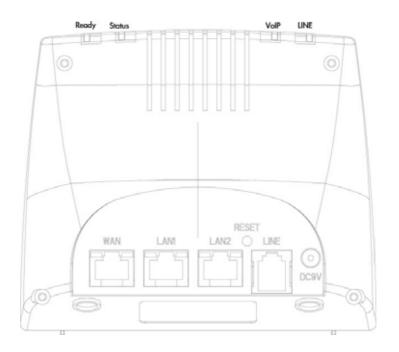
RJ-11 cable x 1

Physical Details

The following figure illustrates the front/rear panel of VIP-320.



Front Panel of VIP-320



Rear Panel of VIP-320

LED Display & Button

Front Panels	Descriptions
Paring LED	When the base connect to the handset
Battery Charge	When charging the handset's battery.
Handset charge Holder	Holder the handset
Intercom	When it pairing

LED Indicators	Descriptions
LINE	LINE LED will light when PSTN.line is in use
VoIP	VoIP LED will light when talking through VoIP.
Status	The Status LED will be flashing when the machine is operational
Ready	Ready LED will be ON when the registration toward the GK/SIP proxy is successful.

Back Panels	Descriptions
DC9V	Power Adapter connecter
LINE	Connect to the RJ-11 phone line
Reset	Reset to the default setting
LAN 1 / LAN 2	10/100Mbps Ethernet port, used to connect PC or NB.
WAN	10/100Mbps Ethernet port, used to connect ADSL or cable modem.

Note Note

The Default LAN IP is $\underline{\text{http://192.168.0.1}}$. Press RESET button on rear panel over 20 seconds will reset the VoIP Router to this default LAN/WAN IP address and Username/Password function.



Overview of DECT handset DCT-100

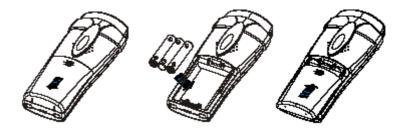
Keypad and button definition on DCT-100

	Descriptions
INT	Intercom conversation mode
△ ♥	Adjust the volume level during the conversation and menu selection on
	the LCD display.
>	Last Number Redial
⊘	Hang on / up telephone or pressing until to open /close speaker
С	Cancel and Clear
R	Power on / off
Number 0 –9 and #	The function is as the same as the general phone set.
*	Press * to switch PSTN

DCT-100 installation

The three rechargeable Ni-MH batteries (AAA size) come with your phone. Install the batteries before using your phone.

- 1. Slide the battery cover in the direction of the arrow and pull it out.
- 2. Remove old batteries, if any, and insert new batteries as indicated, matching correct polarity (+, -).
- 3. Replace the battery cover, slide the cover up until it snaps shut.



Note Note

- This phone won't work by itself. It should be registered to the main base unit inside the VIP-320.
- Before initial using, it should be charged for 24 hours.

Note Note

- Reversing the orientation may damage the handset.
- The battery needs to be replaced if it does not recover its full storage capacity after recharging.
- When replacing batteries, always use good quality Ni-MH re-chargeable AAA size batteries.
- Never use other batteries or conventional alkaline batteries.

Register your DCT-100 to VIP-320

- Press Intercom button on VIP-320 for 5 seconds until the Paring LED lights.
- Press key to go into manual option.
- Select HS register
- · Press INT key.

- Select the desired DECT base (Base1 for example). Press INT key, DCT-100 will display Searching:
 on the LCD screen
- Wait till a machine hardware ID shows up, ex: 002F5-11708H, then press INT
- When machine prompts for PIN number, inert PIN number 1590 then press INT, then DCT-100 will start to register to base and showing Searching....
- Once the registration is completed, the DCT-100 will show HS x, Base y on the screen.

Note: x is the registered handset number and y is the registered DECT base.

Un-register / Reset your DCT-100

- Press the **INT** button before power on the handset.
- Power on the handset, and DO NOT release the INT button till the LCD displays "F->clear Subs"
- Press the down button to clear the handset settings.
- Power off, power on handset again, the handset will display "Not Sub", and it is now not registering to any DECT base.

Physical Installation Requirement

This chapter illustrates basic installation of VIP-320

- Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.

For Internet Access, an Internet Access account with an ISP, and either of a DSL or Cable modem (for WAN port usage)

Administration Interface

PLANET VIP-320 provides GUI (Web based, Graphical User Interface) for machine management and administration.

Web configuration access

To start VIP-320 web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN interface IP address of VIP-320 is **192.168.0.1**. You may now open your web browser, and insert **192.168.0.1** in the address bar of your web browser to logon VIP-320 web configuration page.

VIP-320 will prompt for logon username/password, please enter: **admin** / **123** to continue machine administration.



Note

Please locate your PC in the same network segment (192.168.0.x) of VIP-320. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

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LAN/WAN Interface quick configurations

Nature of PLANET VIP-320 is an IP Sharing (NAT) device, it comes with two default IP addresses, and default LAN side IP address is "192.168.0.1", default WAN side IP address is "172.16.0.1". You may use any PC to connect to the LAN port of VIP-320 to start machine administration.,



In general cases, the LAN IP address is the default gateway of LAN side workstations for Internet access, and the WAN IP of VIP-320 is the IP address for remote calling party to connect with.

LAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: **192.168.0.1**) of VIP in the adddress bar. After logging on machine with username/password (default: **admin / 123**), browse to "**Administrator**" --> "**LAN setting**" configuration menu:

LAN IP Address: 192 168 0 1
Subnet Mask: 255 255 255 0
Default Gateway: 192 168 0 254

Parameter Description

IP address LAN IP address of VIP-320

Default: 192.168.0.1

Subnet Mask LAN mask of VIP-320

Default: 255.255.255.0

Default Gateway Gateway of VIP-320

Default: 192.168.0.254



It is suggested to keep the DHCP server related parameters in default state to keep machine in best performance.

After confirming the modification you've done, Please click on the **Modify** button to macke the changes effective.

WAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: **172.16.0.1**) of VIP in the adddress bar. After logging on machine with username/password (default: **admin / 123**), browse to "**WAN Setting**" configuration menu, you will see the configuration screen below:

Select style: ○ Obtain IP Address Automatically ○ Specify an IP Address ○ PPPoE	
IP Address Assigned by Your ISP :	172 16 0 1
Subnet Mask Assigned by Your ISP :	255 255 0 0
Gateway Address Assigned by Your ISP :	0 0 0

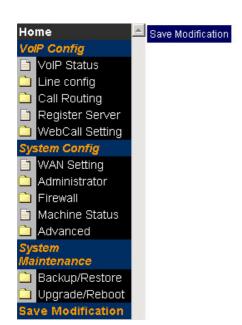
Connection Type	Data required.
Obtain IP Address	In most circumstances, it is no need to configure the DHCP
Automatically	settings.
Specify an IP Address	The ISP will assign IP Address, and related information.
PPPoE	The ISP will assign PPPoE username / password for Internet
	access,



Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully. If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

Save Modification to Flash Memory

Most of the VoIP router parameters will take effective after you modify, but it is just temporary stored on RAM only, it will disappear after your reboot or power off the VoIP router, to save the parameters into Flash ROM and let it take effective forever, please remember to press the **Save Modification** button after you modify the parameters.



Yes, Please click Save Modification button!!

Save Modification

Chapter 3

Network Service Configurations

Configuring and monitoring your VIP-320 from web browser

The VIP-320 integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard, web browser, you can configure and check machine status from anywhere around the world.

Overview on the web interface of VIP-320

With web graphical user interface, you may have:

- More comprehensive setting feels than traditional command line interface.
- Provides user input data fields, check boxes, and for changing machine configuration settings
- Displays machine running configuration

To start VIP-320 web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Manipulation of VIP-320 via web browser

Log on VIP-320 via web browser

After TCP/IP configurations on your PC, you may now open your web browser, and input *http://192.168.0.1* to logon VIP-320 web configuration page.

VIP-320 will prompt for logon username/password: admin / 123



VIP-320 log in page



VIP-320 main page

Chapter 4 VoIP Configurations

VIP-320 Status

This page main display the current and last time VoIP call status & result.

Parameter Description	
PC Time	will show the date & time that your connected PC now.
Gateway Time	will show the date & time of this VoIP router, the date amd time is get from SNTP server. You may setting the SNTP server from "System Config → Administrator → Date & Time"
Ports Message	
Port	display FXS interfase the port number.
Туре	Telephone interface type:
	FXS: for connect to regulate phone set.
Display Name	display the remote party name of this VoIP call.
Status	Current status of this port.
Idle	Standby make phone call.
Signal	Waiting for DTMF key in or VoIP protocol connecting.
In	There is a phone call made from phone port and call out to Network by VoIP.
Out	There is a phone call made from network VoIP and pick up by phone set.
Connected IP	The other party IP of this VoIP call.
Caller ID	Caller ID received from phone port.
Start Time	Date & time of this VoIP call begin on this port.
End Time	Date & Time of last VoIP call End on this port.
Talking Sec	Total talked seconds of last VoIP call on this port.
Dialed number	On the VoIP call out (line status display In), This will display the real dial out number for VoIP call. On the VoIp call in (line status display out). This will display the number will dial out to phone line.
Release by	This will display the reason of this call termination.
Register Sever Status:	This VoIP router can register to 4 GK/SIP proxy simultaneously. You can setup the GK/SIP proxy information on "VoIP Config → Register

	Server"
Error Message:	For some reason (ex. All lines of this VoIP router are busy), here will
Error wessage.	display the failure information of last time VoIP Call in.



Line Setting

This page will setup the phone line information each port.

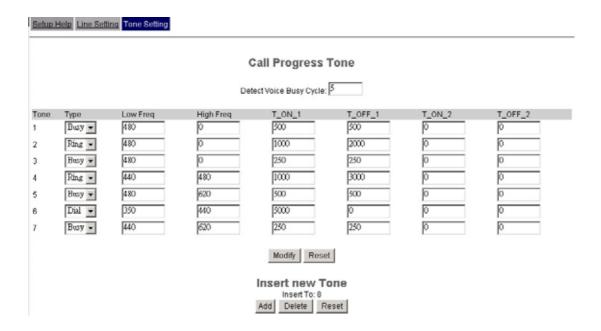
Parameter Description	
Port	display FXS interfase the port number.
	Telephone interface type:
Interface	FXO: for connect to telephone line or PBX extension line.
	FXS: for connect to regulate phone set.
Name	Line name for this port. This will send and display on the remote side
Name	due VoIP call
Line Number	Telephone number assigned to this line.
	Transmitter Gain. This will adjust the speaker volume of local phone set.
TxGain	The adjust range is from +3 to -13dB. Higher value will cause louder
	sound come from local phone set.
	Receiver Gain. This will adjust the microphone volume of local phone
RxGain	set. The adjust range is from -3 to +13dB. Higher value will cause
	amplifier the sound get from local phone set.
Inbound	Enable or disable the VoIP call to Internet. Disable the inbound will not
IIIDOUIIU	allow any call made call to Internet from phone set.
Outbound	Enable or disable the VoIP call from Internet. Disable the Outbound will
Outbourid	not allow any call made call from Internet to phone set.
Hotline	When Enable, it will allow you to make a VoIP call without Key in any

	number. That mean it will direct call out by VoIP when you off hook the
	phone of this line.
Setup Help Line Setting Tone Setting	
PortInterface Name [ine Number TxGain1 RxGain1 TxGain2 RxGain2 InBound OutBound HotLine
1 FXS	-6 ▼ db 8 ▼ db 0 ▼ db 12 ▼ db Enable ▼ Enable ▼ Disable ▼
	Modify Reset

Tone Config

This page defines the tones generated to the phone connected to the phone port. All lines use same tone parameters. After modify the tone parameters, you must save modify then Reboot to let the modified parameters work.

Parameter Description			
	Use the parameters to automatic detect cadence busy tone. When		
	detected a voice cadence repeat over this parameters setting in		
Detect Voice Busy Cycle	sequence, the VoIP router will treat it like busy tone and disconnect		
	automatically. Please do not set this parameter less than 5 to avoid		
	unexpected erroneous disconnect.		
	You can set up to 15 tones set for detection and generation. For the		
Tone define Table	generation, the first entry will be used. The call progress tones, ranging		
Tone define Table	from 300 Hz to 2000 Hz, are defined for both generation and detection.		
	Generation, however, can be defined from 1 Hz to 3980 Hz.		
Tone	Maximum 15 tones can be defined.		
	Dial: Define the generated dial tone for phone set		
Туре	Busy: Define the busy tone for generate & detect		
	Ring: Define the ring back tone for generate		
Low freq	Lower frequency for defined tone		
	Higher frequency for defined tone. Each tone can define two		
High freq	frequencies, if only one frequency needed, please leave High		
	Frequency to 0.		
T_ON_1,T_OFF_1, T_ON_2,	The cadence pattern of up to four intervals for each dual-frequency.		
T_OFF_2	Minimum Cadence value is 30msec.		



VoIP Call Out

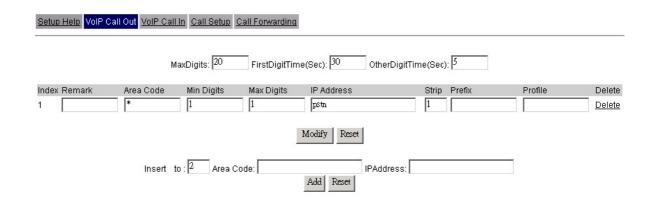
This page defines the routing rule for Call out to VoIP. (User key in the phone number through phone set dial pad, then VoIP router translate the phone number by the routing table setting here to destination IP, and dial out number then call out via network protocol).

Each time when you off hook the phone connected to this VoIP router, you will hear a dial tone to remind you to key in the phone number, after you input the number you called, if digits of the number of you called is not exceed the Max Digits, please remember to press the # key for ending the input.

Parameter Description			
	Define the maximum digits wait for user key in for all VoIP Call Out, if		
MaxDigits	user key in digits match the number defined here. It will go to translate		
	for call out rule without needed to press # key.		
	Define the waiting seconds for user key in phone number first digit. User		
FirstDigitTime	need to key in first digits before the seconds defined here, if VoIP router		
riistbigittiille	wait over the defined seconds and there is no any digits key in, the VoIP		
	router will feedback the user busy tone.		
	Define the waiting seconds for user key in phone number secondary &		
OtherDigitTime	the rest digits. User need to key in the rest digits before the seconds		
OtherbigitTime	defined here, if VoIP router wait over the defined seconds and there is		
	no any digits key in, the VoIP router will feedback the user busy tone.		
Remark	Remark for this routing rule. Please use UNDERLINE to replace the		
Remark	SPACE due to HTTP protocol limitation.		
Area Code	Define the Prefix number fit this rule, any phone number prefix digits		
Alea Coue	matched with the rule will call out by this rule define. Please Notify there		

	is a compare order rule on this routing table. That mean the VoIP router			
	will check the rule list from top to bottom one by one, any rule item			
	matched with the prefix digits that user key in will go to call out directly			
	no regard to the rest rules below. For Example, if a rule item for area			
	code 8862 is on Index 5, another rule item for area code 886 on Index 6			
	below that will be ignored.			
	By setting the hin (hi1 for hot line one, hi2 for hot line two) on the area			
	code field, and enable hot line function (Please refer to the "VolP Config			
	→ Line Configure → Line Setting"), the VoIP router can service the			
	hot line direct call.			
	Define the minimum digits wait for user key in for number fit this rule, if			
	user key in digits less the number defined here. It will keep waiting for			
Min Dinita	input until exceed the "FirstDigitTime" defined time. If user key in digits			
Min Digits	more then "Min Digits" here, the VoIP router will wait time defined on			
	"OtherDigitTime" then go to translate for call out rule without needed to			
	press "#" key.			
	Define the maximum digits wait for user key in for number fit this rule, if			
Max Digits	user key in digits match the number defined here. It will go to translate			
_	for call out rule without needed to press "#" key.			
	Define the destination IP for call out number fit this rule, user can input			
	below format:			
	IP address, such as: 210.66.155.93			
	URL, such as: vip.planet.com.tw			
	Note: This H.323/SIP DECT VoIP router can setup to Uregister to			
IP Address	DDNS service. (Please refer to the "System Config → Advanced →			
	Dynamic DNS") to let user call out to another VoIP router with dynamic			
	IP by URL.			
	GK/SIP proxy , such as: it will get the destination IP by register server			
	setting (Please refer to the "VolP Config -> Register Server") in			
	advance.			
	The number of digits will be ignored by user input.			
	For example, if user key in the number is 886222199518 and the			
Strip	STRIPE field is setting to 4, the first 4 digits 8862 will be truncated and			
	actually call out number will be 22199518.			
	The numbers will be added on the prefix of user key in number.			
	For examples, if user key in the number is 22199518 and the PREFIX			
	field is setting to 0028862, the actually call out number will be			
Prefix	002886222199518.			
	Another example, if user key in the number is 90, STRIP field is setting			
	to 2, and the PREFIX field is setting to 0,22199518, the actually call out			
	to 2, and the FREE IX held is setting to 0,22 1990 to, the actually call out			

	number will be 0,22199518 (", " mean wait 1 second).
	This example is especially for speed dial function.
	Define the optional special call out parameters on this destination.
Profile	Please input the name you Udefined on the profile (Please refer to the
	"VoIP Config → Routing Setup → Routing Profile") list.
Delete	Delete this rule item on routing table.



To add new rule item on routing table, please assign the item number you want to insert before, input AREA CODE and IP address then press ADD button to add it on the list. Then modify the necessary information on the routing table list.

Please remember to press the modify button to take it effect. For store back to flash memory, please press "Syetem Maintenance → Save Modification".



When user enable the hot line function on "VoIP Config > Line Configure > Line Setting" menu, it will over ride the above parameters and direct call out by hot line call out rule.

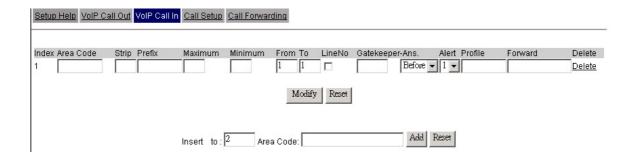
VoIP Call In

This page let you define the routing rule for Call in from VoIP. (VoIP router got a VoIP call required form network, and then translates the phone number passed from remote side VoIP router to the real dial out number, and line base on this VoIP call in routing table). Each time when the VoIP router received a VoIP call from network, it will check with "Area Code" to see which rule matched to service, if no rule matched, it will refuse to call out and will bound back the call.

When the VoIP router received a VoIP called from network, it will check below rules fields then decide line and number to dial out.

	Parameter Description
	Define the Prefix number this rule service, any VoIP called from network
	dialed number prefix digits matched with the rule will call out to phone by
	this rule define. Please Notify there is a compare order rule on this
Area Code	routing table. That mean the VoIP router will check the rule list from top
Alea Code	to bottom one by one, any rule item matched with the prefix digits that
	user key in will go to call out directly no regard to the rest rules below.
	For Example, if a rule item for area code 8862 is on Index 1, another rule
	below that like index 2 for area code 886 will be ignored.
	Number of digits will be ignored by user input.
Cárin	For example, if received VoIP call number is 886222199518 and the
Strip	"STRIPE" field is setting to 4, the first 4 digits 8862 will be truncated and
	actually call out number will be 22199518.
	The numbers will be added on the prefix of received VoIP call number.
Deafin	For examples, if received VoIP call number is 22199518 and the
Prefix	"PREFIX" field is setting to 0028862, the actually call out number will be
	002886222199518.
	Define the maximum digits of call number allow to dial. If the length of
	dial number after pervious "STRIP" and "PREFIX" process is more than
Massimosum	the setting, it will deny dialing out.
Maximum	For example, you can set the "Maximum" dial out digits is 8, for call to
	local area phone only, any VoIP call in attempt to dial 0222199518 out of
	8 digits for call out long distance will been deny to call out.
	Define the minimum digits of call number allow to dial. If the length of
	dial number after pervious "STRIP" and "PREFIX" process is less than
Minimum	the setting, it will deny dialing out.
	For example, if set "Minimum" to 4, any VoIP call in attempt to dial
	number less than 4 digits like 110, 911 will been deny to call out.
	Define the beginning line number for service this area code VoIP call.
Erom	For example, if user assigned FROM 1 TO 1 for AREA CODE 601 in this
From	routing table, then any VoIP call for call in number 601 will ring the line 1
	only.
То	Define the ending line number for service this area code VoIP call.
	Click to enable if you want to force compare with the line number setting
	on ULINE CONFIGUREU menu (Please refer to the "VoIP Config →
Line No	Line Config → Line Setting"). If the dial number after pervious STRIP
	and PREFIX process is matched with the line number setting, the VoIP
	call will ring the dedicate phone line that assigned with matched number.

	Assign which gatekeeper to authorize this incoming VoIP call before call out.				
Server					
Sei vei	For example, if the dial number should be checked by server 1 setting				
	on the "Regster Server" menu (Please refer to the "VoIP Config →				
	Register Sever").				
	When the call is coming, Before or After to pick up the phone, the				
	Server should check that has the speaker got authorization from				
	Register Server ?				
	After: setting on After function, when the call is coming, Server will ring				
	at first, when user pick up the phone, then Server will go to Register				
ANC	Server for checking caller-authorization, if the authorization has				
ANS	confirmed, then the connection will start to success, otherwise it will sent				
	busy tone.				
	Before: setting on Before function, when the call is coming, at fist				
	Server will go to Register Server to check that has the speaker got				
	authorization? If the authorization has confirmed, then Server start to				
	ring, otherwise it will send busy tine.				
	Control the Ring Back tone generate timing:				
	Mode 0: When this VoIP ruter get ring back tone from phone line, it will				
	send the ring Alert signal to remote VoIP router for generate ring back				
	tone.				
	Mode 1: Before this VoIP router dial to phone line, it will send the ring				
Alert	Alert signal to remote VoIP router for generate ring back tone.				
	Mode 2: After this VoIP router finish dial out number to phone line, it will				
	send Connect OK signal to remote VoIP router.				
	Mode 3: Before this VoIP router dial to phone line, it will send the ring				
	Alert signal to remote VoIP router for generate ring back tone, after this				
	VoIP router finish dial out number to phone line, it will send Connect OK				
	signal to remote VoIP router.				
	Define the optional special VoIP parameters when received on this				
Profile	destination. Please input the name you defined on the profile list (Please				
	refer to the "VoIP Config → Call Routoing → Call Setup").				
	Define the profile name for forward the unanswerable VoIP call on this				
Forward	call in rule. Please input the name you defined on the "Forward" profile				
	list.				
-	Delete this rule item on routing table.				
	To add new rule item on routing table, please assign the item number				
Delete	you want to insert before, input AREA CODE then press ADD button to				
	add it on the list. Then modify the necessary information on the routing				
	table list.				
	IANG IISI.				



Please remember to press the modify button to take it effect. For store back to flash memory, please press "Save Modification" (Plaase refer to the "Syetem Maintenance -> Save Modification").

Call Setup

This page defines the optional special VoIP parameters when making/received a VoIP call. For define some special parameters for different VoIP equipment or authorize purpose, please add a profile at "VoIP Config \rightarrow Call Routing \rightarrow Call Setup", and use the same name as the profile on the "Call in Routing Table" (Please refer to the "VoIP Config \rightarrow Call Routing \rightarrow VoIP Call In") or "Call out Routing table" (Please refer to the "VoIP Config \rightarrow Call Routing \rightarrow VoIP Call Out").

Parameter Description					
Name	Specify a profile name. Please use UNDERLINE to replace the SPACE				
Name	due to HTTP protocol limitation.				
	ON: turn on the VAD (Voice Activity Detection) function.				
VAD	OFF: turn off the VAD function, please select ON for save the				
	bandwidth.				
	Select different voice CODEC for VoIP communication. The bit rate of				
CODEC	G.723.1 is 5.3k/6.3k, G.729 is 8k, uLaw and aLaw is 64k per second.				
	The G.723.1 is default CODEC.				
H.245 tunneling	ON: to enable H.245 tunneling.				
	OFF: to disable H.245 tunneling.				
	When select UIn bandU to transfer the DTMF during VoIP, the user				
	pressed DTMF tone will be treat as general voice and been compressed				
	then transmit to remote side to decompress play back, it maybe cause				
DTMF Relay	some problem on duplicate or missing DTMF receive.				
Dilwii Kelay	When select "Out band" to transfer the DTMF during VoIP, the user				
	pressed DTMF tone will be decode by local VoIP router then transmit as				
	signal, after received on received remote VoIP router, it will be				
	regenerate by remote VoIP router. The default value is Out band.				
T.38 FAX Relay	ON: FAX will be transmitted by using T.38 FAX over IP protocol.				

		OFF: FAX over IP is disable.					
		Select the voice payload frame on each UDP package VoIP transmit.					
Package Frame		More frames into one package is save more bandwidth. The default					
		frames on ea	ch packa	ge is 3.			
Q.931 Fast Start		ON: Enable F	ast Start	capability du	uring Q.931	handshaking	
Q.931 Fast Start		OFF: Disable	Fast Sta	rt capability	during Q.93	1 handshakin	ıg.
ID1		User defines	ID #1 dur	ing this VoIF	call.		
	E.164 : Paran	neter on I	D1 field is th	e E.164 dur	ing this VoIP	call.	
		H.323 ID : Pa	rameter o	n ID1 field is	s the H.323 l	ID during this	VoIP call.
		Calling: Para	ameter on	ID1 field is	DID number	during this V	olP call. If
As		this optional is setting, it will override the LINE NUMBER on line Setting					
-15		menu.					
		Password: Parameter on ID1 field is the password for VoIP call.					
		Parameter defined here will used as MD5 during H.235 and will not					
		display on the Web UI					
ID2,ID3,ID4		There are 4 fields for user define the ID parameters, please reference					
		the ID1 setting above.					
Delete	Delete this rule item on routing table.						
		I					
Setup Help VolP Call Out V	olP Call In Cal	Setup <u>Call Forward</u>	inq				
Index Name VAD	CODEC	H.245 Tunneling	DTMF Relay	T.38 FAX Relay	Package Frame	Q.931 Fast Start	
			ID3	AS	ID4	AS	

To add new profile item on routing table, please assign the number you want to insert before, input profile NAME then press ADD button to add it on the list. Then modify the necessary information on the routing table list.

Add Reset

Insert to: 1

Please remember to press the modify button to take it effect. For store back to flash memory, please press "Save Modification" (Plaase refer to the "Syetem Maintenance -> Save Modification").

Call Forwarding

This page defines the scenario of call forwarding:

- ◆ Get an unmatched prefix number for VoIP call in
- Line busy

No answer

Please add a profile at "VoIP Config → Call Routing → Call Setup" and put the name of profile on the Call out Routing table (Please refer to the "VoIP Config → Call Routing → /VoIP Call Out").

Parameter Description				
	Define the forward IP and forward phone number when there is no			
	match rule setting on "VoIP Call Out Routing" table. The format is			
Other	IP/phone number or URL/phone number. I.e. all the phone number can			
	find a matched prefix rule will be forward to the IP, and phone number			
	define on here.			
Name	Specify a profile name. Please use UNDERLINE to replace the SPACE			
ivallie	due to HTTP protocol limitation.			
Alwaye	Always redirect forward to this IP (or URL)/phone number, original line			
Always	will never ring and all incoming call will be forward to IP assigned here.			
	Redirect forward to this IP (or URL)/phone number when busy, an			
On Busy	incoming VoIP call will forward to IP assigned here when this line is			
	busy.			
	Redirect forward to this IP (or URL)/phone number when no answer			
No Answer	over the time "No Answer Sec", an incoming VoIP call will forward to IP			
	assigned here when ring time over the defined on "No Answer Sec".			
No Answer Sec.	Defined the maximum wait seconds for redirect forward to another IP (or			
NU Allswei Sec.	URL).			
Delete	Delete this rule item on routing table.			

Setup	Help VolP Ca	II Out VoIP Call In	Call Setup Call For	warding		
			(Other:		
No.	Name	Always	OnBusy	No Answer	No Answer Sec	Delete
				Modify Reset		
			Insert to	Name: Add Reset		

To add new rule item on routing table, please assign the item number you want to insert before, input AREA CODE then press ADD button to add it on the list. Then modify the necessary information on the routing table list.

Please remember to press the modify button to take it effect. For store back to flash memory, please press "Save Modification" (Plaase refer to the "Syetem Maintenance -> Save Modification").

Register Server

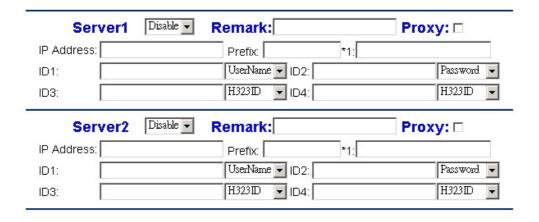
If this VoIP router want to use GK/SIP proxy service to transfer the VoIP call, you can input the GK/SIP information here. The VoIP router can register to up to four GK/SIP proxy simultaneously.

Parameter Description				
	Success: Register successful.			
Register Server Status	Failure: Register failure.			
	Disable: disable register this gatekeeper			
MAC	Display the MAC address of WAN on this VoIP router			
Server1	Enable: Enable the VoIP router to register Server #1.			
Serveri	Disable: Disable the VoIP router to register Server #1.			
Remark	For Notify remark for this Gatekeeper. Please use UNDERLINE to			
Remark	replace the SPACE due to HTTP protocol limitation.			
	Click to enable using GK/SIP proxy function. When enable, VoIP call will			
	go through the GK/SIP proxy service. Please click here if your VoIP			
Proxy	router is installed behind NAT or firewall without real IP. If you want use			
	this function, please make sure your GK/SIP proxy has support the			
	proxy function.			
	Define the GK/SIP proxy server IP, user can input below format			
IP address:	IP address, such as: 192.198.0.1			
	URL, such as: vip.planet.com.tw			
Prefix	Specific the prefix number of this VoIP router service for register to			
TIGHA	gatekeeper.			
	Specific the ID of this VoIP router for register to gatekeeper			
	H.323: register above ID as H.323 ID.			
	E.164: register above ID as E.164 ID.			
ID1	User Name: register above ID as user name for H.235 on Gatekeeper.			
	Password: register above ID as password for H.235 on Gatekeeper.			
	There are four fields for user define the ID parameters, please reference			
	the ID1 setting above.			
*1:SIP OutboundProxy	To make a call using SIP protocol with proxy server, input the server IP			
	or domain name in the *1:SIP OutboundProxy field.			



Register Server Config

Mac: 00304f44d2ef



(i) Hint

When voice communication is established via H.323 protocol, please add a "h323:" in front of the IP address. Such as: the GK IP address is 192.168.0.100, then input "h323:192.168.0.100" in the IP address.

When voice communication via the SIP protocol, please add a "sip:" in front of the IP address/URL.
Such as: the SIP-50 IP address is 192.168.0.50, then input "sip:192.168.0.50" in the IP address.

Please remember to press the "**Done**" button to take it effect. For store back to flash memory, please press "**Save Modification**" (Plaase refer to the "**Syetem Maintenance** \rightarrow **Save Modification**").

WebCall

There is a embedded Web Call function within the VoIP router, The Web Call function let you call to the phone lines of this VoIP router with Web browser IE(Internet Explorer from Microsoft). When a client PC uses browser open the embedded web this VoIP router, the embedded VoIP router will send the page with the parameters defined on "VoIP Config > Web Call Setting", and will launch the Net meeting within client PC windows OS. This function let a user PC with Internet connection to make a VoIP call to the lines connected to VoIP router. When user uses a browser to connect to the VoIP router, it will show the welcome Page:

Parameter Description		
Gateway IP Show the IP of this VoIP router		
Name	Select the name you want to make connect, this is defined on Web Call page. (Please refer to the " VoIP Config → Web Call Setting → Web call).	
Call	Press to make a call.	
Stop	Stop the call.	

WebCall Config

This page let you define the welcome message, LOGO, call number when using Web Call function.

Web Call accept List:

Define the display name on select option during Web call.

Parameter Description	
Name	Name of selectable item during web call.
Number	Number of this selected item call out, when user select the name of this
	item rule, the number here will be used as the number for VoIP call In,
	and will check with the area code define on "VoIP Config → Call
	Routing → VoIP Call In", that mean you should have a matched item
	defined on "VoIP Config → Call Routing → VoIP Call Out".
Delete	Delete this rule item on routing table.
Stop	Stop the call.

To add new name item on Web Call accept List, please assign the number you want to insert before, input list item NAME then press ADD button to add it on the list. Then modify the necessary information on the r Web Call accept List.

Please remember to press the "Modify" button to take it effect. For store back to flash memory, please press "Save Modification" (Plaase refer to the "Syetem Maintenance → Save Modification").

BWelcome page and banner Upload:

Define the welcome message and Logo for Web Call function:

Parameter Description	
Page	To upload a welcome message HTML file for display on Web Call
	function page, this page should be HTML file and there is a file size
	limitation, please press the "Browse" button to select the HTML file you
	want to upload and press " Upload " to Upload it.
User Welcome page banner	To upload a logo graphic file for display on Web Call function page, this
	graphic file should be name as "Welcome" only and there is no ext file

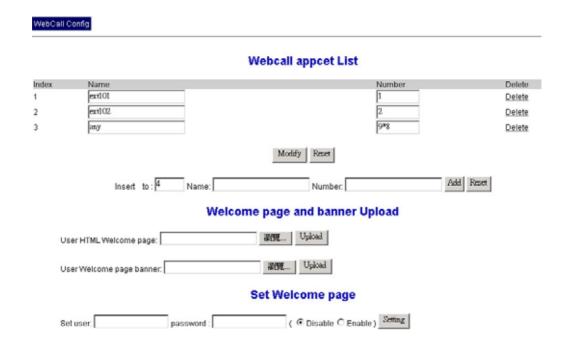
	name, please rename your logo graphic file(.bmp, .jpg, .gif) to
	"Welcome" before upload. There is a file size limitation. Please press the
	Browse button to select the "Welcome" file you want to upload and
	press Upload to Upload it.
Delete	Delete this rule item on routing table.
Stop	Stop the call.

Set Welcome page:

Set up the authorization check option for Web Call function. When Enable the authorization check, user need to input the valid user name and password to use the Web Call function.

- ◆ Set User: valid name for Web Call user
- ◆ Password: valid password for Web Call user.
- ♦ **Disable/Enable:** Disable or Enable username or password check for Web Call function.

When enable password check, user need to input the valid user name and password for Web Call.



Chapter 5 System Configurations

System Config

Bridge Mode Setting

This page allows you to disable/enable this device become bridge device or not. When it becomes a bridge device, bridge interface use LAN's IP address, LAN's subnet mask.

When working on Bride Mode, the VoIP router will use only the LAN setting IP, The VoIP router will use the same LAN IP setting as WAN IP. That mean, When Bride mode enable, the WAN connection setting will be ignored.

Date & Time

This page allows you to adjust the date & time settings in this router. The time settings are in 24-hour format. The router also uses the date and time to time stamp to log events.

Note: When you reset the router, you MUST adjust the date and time again.

Password

This page allows you to change the administration password used to manage this router for security reasons. o set this password, enter your current password in the Old Password field and then enter a New password in the New Password and Confirm New Password fields.

♣ Note

The Default User name is "admin" and the password is "123" from factory. Press RESET button on rear panel over 5 seconds will cause the VoIP router reset to this default user name and password.

Basic Setup

This router comes with the built-in firewall based on the advanced technology of Stateful Packet Inspection to protect your network from being attacked by hackers. You can set up network access rules to decide if the network traffic is allowed to pass through (LAN-to-WAN and WAN-to-LAN) the firewall built inside the router.

In the following sections, you are able to configure firewall settings in this router. Some advanced knowledge or experiences in TCP/IP internet work are required.

Basic Settings: You can configure basic firewall settings in this router.

LAN-to-WAN Access Rules: You can define LAN-to-WAN network access rules which evaluate the network traffic's source IP address, destination IP address, and communication port to decide if it's allowed to pass through the firewall.

WAN-to-LAN Access Rules: You can define WAN-to-LAN network access rules which evaluate the network traffic's source IP address, destination IP address, and communication port to decide if it's allowed to pass through the firewall.

LAN to WAN Access Rules

This pages allows you to define LAN-to-WAN network access rules which evaluate the network traffic's source IP address, destination IP address, and communication port to decide if it's allowed to pass through the firewall.

By default, the stateful packet inspection module of this router allows all communications to the Internet that originates from the LAN. The behavior is defined by the default stateful packet inspection enabled in the router:

- Forward all sessions originating from the LAN to the Internet.
- ◆ Discard all sessions originating from the Internet to the LAN (Pleaes refer to the "WAN-to-LAN Access Rules" at System Setup→ Firewall → WAN-to-LAN Access Rules).

Additional access rules may be defined to extend or overwrite the default rules.

◆ The ability to define network access rules is a very powerful management tool. Using a custom rule, it's possible to disable all firewall protection, creating holes in the firewall, or block all access to the Internet. Use with extreme caution when creating or deleting network access rules.

Note N

◆ Network access rules will not disable protection from Denial of Service (DoS) attacks, such as SYN Flood, Ping of Death, Port Scan, etc. However, it's possible to create vulnerabilities to attacks that exploit vulnerabilities in applications.

WAN to LAN Access Rules

This pages allows you to define WAN-to-LAN network access rules which evaluate the network traffic's source IP address, destination IP address, and communication port to decide if it's allowed to pass through the firewall.

By default, the stateful packet inspection module of this router blocks all traffic to the LAN that originates from the Internet. The behavior is defined by the default stateful packet inspection enabled in the router:

- ◆ Forward all sessions originating from the LAN to the Internet (Pleaes refer to the "LAN-to-WAN Access Rules" at System Setup → Firewall → LAN-to-WAN Access Rules).
- Discard all sessions originating from the Internet to the LAN.

Additional access rules may be defined to extend or overwrite the default rules.

◆ The ability to define network access rules is a very powerful management tool. Using a custom rule, it's possible to disable all firewall protection, creating holes in the firewall, or block all access to the Internet. Use with extreme caution when creating or deleting network access rules.

Note

◆ Network access rules will not disable protection from Denial of Service (DoS) attacks, such as SYN Flood, Ping of Death, Port Scan, etc. However, it's possible to create vulnerabilities to attacks that exploit vulnerabilities in applications.

Machine Status

This page display the Current Status of the VoIP router.

Dynamic DNS Setting

This section allows you to set up advanced features in this router. During the design stage, we have given much thought to making this router as convenient and easy to use as possible. However, some more advanced knowledge about TCP/IP might still be required.

Dynamic DNS: Each time the WAN address is changed, DDNS service will automatically update it to dyndns.org. You can register your account at :http://www.dyndns.org

DHCP Server Setting

This page allows you to set up configurations of DHCP server built in the router. The DHCP server of this router provides IP addresses, the subnet mask, the gateway address, and DNS server addresses to the LAN computers and devices dynamically. The default IP address space of this DHCP server is 192.168.0.x, with subnet mask 255.255.255.0, and the default gateway of this network is the IP address of this router (192.168.0.1).

It's highly recommended you use this router as the DHCP server; unless you already have a DHCP server on the network.

The DHCP server comes with two default IP lease ranges. To add a new dynamic IP range for lease, click the "Show Current IP Ranges" section.

To view the current dynamic IP assignments from the DHCP server, click "Show IP Lease Table (Show DHCP leases".

To assign a fixed-IP for a certain host on private network, click "Show Fixed-IP Table".

Note N

When any change is made on this page, you MUST restart all PCs to update their TCP/IP settings from this DHCP server.

Static Routing

This page mainly allows you to define a static routing entry in the internal routing table of the router. If the private LAN has internal routers, their addresses and network information will need to be entered into this router to find the correct data path when it routes network packets. Static routes are generally used if the LAN are segmented into subnets, either for size or practical considerations.

Most of users who are using the whole IP address space without sub networks don't have to enter any entry in this table. The router automatically updates its internal routing table and dynamically notifies other routers on the network by sending out RIP (Routing Information Protocol) information. This router supports RIP I and RIP II standards.

To add a new static routing path, click "View or Add Static Routing Table" link.

Note

Adding incorrect routing information can affect the connection, a local host, or the whole private network. You must have experience working with routing tables before using this option.

Virtual Server

This page allows you to map a TCP or a UDP port of the router to a host which actually deals with requests on the private network.

Local Server List Index Rule Status Protocol External Port Begin No. External Port End No. Physical IP Address Internal Port No. **Define A Local Server Rule** Insert to: 1 Rule Status : Disable 🕶 Protocol: TCP -External Port Begin No.: 0 External Port End No.: 0 (Note: Internal Port No. will be bypass, if External Port Begin No. is not equal External Port End No. This case we map port range to local server.) Internal Port No.: 0 Physical IP Address : 0.0.0.0 Add Reset

DMZ

This page let you set up the DMZ service on the VoIP router.

System Maintenance

This page let you backup / Restore all of your configuration parameters on the VoIP router. It is very good idea to back up all of your VoIP router configuration parameters after install.

Configurations

To Backup, press Download setting backup file, and input the file name you want and file location to save.

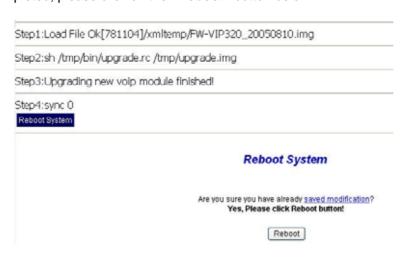
To Restore, press the Browse button the select the backup configuration parameters file to upload then press Restore. After you upload the file, Press "Save modification" to save your current configuration to Flash ROM (Usually used to save currently WAN configuration). After save, please remember to "Reboot" the VoIP router to let the restored parameters take effective.

Firmware Upgarade Procerdure:

Pleaes download the latest firmware to a PC firset, and browse to the "Backup/Restore --> Configurations" menu, and click on the "Browse" icon to select the file, once the firmware file is entered, please click on the "Restore" icon to proceed with the updating process.



After process completed, please click on the "Reboot" button below:





Never power off the VoIP router when restoring machine configuration file or upgrading the firmware, the machine will be damaged permanently.

Reboot System

Use the Reboot button on this page to reboot your VoIP router, before you reboot, please make sure you have to press the "**Saved modification**" to save your current configuration to Flash ROM, otherwise all the change will be disappear after reboot.

Save Modification to Flash Memory

Most of the VoIP router parameters will take effective after modifications, but it is just temporary stored on RAM only, it will disappear after your reboot or power off the VoIP router, to save the parameters into Flash ROM and let it take effective forever, please remember to press the Save Modification button after you modify the parameters.

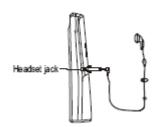
Chapter 6 DECT Handset Operations

In machine default state, the DECT handset DCT-100 is registered with VIP-320. When adding more DECT handsets to the VIP-320, these handsets should be registered with VIP-320 to be operational.

Using Headset (optional)

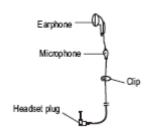
The headset jack is located in the middle right side of the handset and is 2.5mm standard plug.

Simply plug the headset into the jack and the headset will be activated.



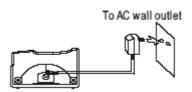
Note:

When the headset is plugged into the headset jack, the microphone on the handset will be deactivated.



Charger

Connect the modular end of the power adapter to the power jack of the charger, and plug the other end into a standard AC wall outlet.



Charging Handset

Before initial operation, YOU SHOULD FULLY CHARGE THE HANDSET for 24 hours.

To charge the handset, just place it on the charger. When charging, the handset is automatically turned on and the battery icon on the display will blink.



2.2 DECT Screen Display



This area displays in-use information such as the caller's number, menus, call duration, etc.

In standby mode, the display will show the signal strength icon, battery status icon, handset and base number.

Signal strength icon:	Mute icon:
This icon is always displayed when your phone is on,	This icon indicates that the phone is in mute
and shows the current signal strength. More bars	conversation mode.
indicate more signal strength.	
Lock icon:	L1Line icon:
This icon indicates that the key lock function is	The icon is displayed when the line is engaged. L1
activated.	means PSTN line is engaged. L2 means Skype VoIP
	line is engaged. L3 means Intercom is engaged.
In use icon:	Intercom icon
This icon indicates that the phone is in use mode.	This icon indicates that the phone is in the intercom
	conversation mode.
Speakerphone icon:	◆ Operation icon
This icon indicates that the phone is in speakerphone	This icon indicates that the phone is in the operation
mode.	mode.
⊠ Caller ID icon	⊕Hot call
This icon indicates that there is a new call. To view the	This icon indicates that the hot call function is
call, access the Caller ID menu.	activated.
A	·

Battery status icon

This icon is displayed at all times when your phone is on, and shows the level of your battery charge. The more bars, the greater the charge. During charging, the icon will flash.

Register your DCT-100 to VIP-320

- Press Intercom button on VIP-320 for 5 seconds until the Paring LED lights.
- Press key to go into manual option.
- · Select HS register
- Press INT key.
- Select the desired DECT base (Base1 for example). Press INT key, DCT-100 will display Searching:
 on the LCD screen
- Wait till a machine hardware ID shows up, ex: 002F5-11708H, then press INT
- When machine prompts for PIN number, inert PIN number 1590 then press INT, then DCT-100 will start to register to base and showing Searching....
- Once the registration is completed, the DCT-100 will show HS x, Base y on the screen.

Note: x is the registered handset number and y is the registered DECT base.

Un-register / Reset your DCT-100

- Press the **INT** button before power on the handset.
- Power on the handset, and DO NOT release the INT button till the LCD displays "F->clear Subs"
- Press the down button to clear the handset settings.
- Power off, power on handset again, the handset will display "Not Sub", and it is now not registering
 to any DECT base.

Call transfer between DCT-100

- During handset 1 (**HS1**) conversation, press the **INT** button and enter the desired handset number. (in this sample, we press the 2 to transfer the call to HS2)
- The desired handset 2 (HS2) will ring, press the O button to answer the call.
- At this moment, press the button on handset 1 (**HS1**), the voice call is now transferred to the handset 2 (**HS2**).
- If the handset 2 not answer the call, and you'd like to cancel the transfer. On handset 1 (HS1), press the INT button, the call will be re-connected handset 1 (HS1) again.

Conference call between DCT-100

- During conversation, press the **INT** button, and there will be "**Intercom**" message displayed on the LCD screen.
- Press the handset number you'd like to add in the voice conferencing. At this moment, you may hear the ringing tone from the destination handset.
- Start voice conversation with the destination handset, and you may now press the # key for 3 seconds, and the destination handset will be joined in the voice conferencing.

VIP-320 DECT base settings

The DECT base settings in VIP-320 have been optimized for most voice communication applications. It is not necessary to change the parameters in most occasions.

BS setting

Base setting is using for factory mode, after modify BS setting, please restart the base!

Factory default PIN is 1590

Press / wutton to select [BS setting]. Press with button to confirm and the display will show [PIN:]
Enter the four digits base PIN. (factory default PIN is 1590)

MASTER mode

1.1 Press button to select [1 L Count 3]

Press and unfutton to 1L Count 1

Press and unfutton to 1L Count 2

Press and unfutton to 1L Count 3 default

This setting for use PSTN / SKYPE / Group Calls

Please DO NOT change factory default value, the DCT-100 may become annulment!

1.2 Press * button to select [2 CALLWAIT Y]

Press and button to 2 CALLWAIT Y

Press and button to 2 CALLWAIT N

This setting is for use call waiting.

Please DO NOT change factory default value, the DCT-100 may become annulment!

1.3 Press * button to select [3.HS VOL3 HS]

This setting is to adjust local handset speaker volume.

Please DO NOT change factory default value, the DCT-100 may become annulment!

1.4 Press * button to select [4 FAR VOL 7]

This setting is to adjust remote handset speaker volume.

Please DO NOT change factory default value, the DCT-100 may















become annulment!

2. Press button to show [EW361001] (Firmware)

This setting is to show the base firmware version.

Press * button and the display will show DEFAULT N default

Press and outton to switch to DEFAULT Y reload factory

Time for reload factory default is 2 seconds then will display **OK**

This setting use to reset default factory default.

Press * button to switch to PROTECT Y default

Press and button to switch to DEFAULT Y

This is used for system protection.

Please DO NOT change factory default value, the DCT-100 may become annulment!

3. Press button to select [F TM 600?] and setting Flash time During the call, press button can switch to another call.

Press and button to change to F TM 130 (ms)

Press and button to change to F TM 260 (ms)

Press and button to change to F TM 390 (ms)

Press and button to change to F TM 600 (ms)

default

This setting is setting for different flash time.

4. Press button to select [Line out 123]
Press * to switch Line out 123 or Line in 123
Press / / and button to enable or disable Line 123
Line out 123 default
Line in 123 default

This setting is setting Line-in/Line-out.

Please DO NOT change factory default value, the DCT-100 may become annulment!

Press button to delete subscriber (handset) mode
 Press the handset number and button to de-register this handset.

This setting is using for de-register subscriber (handset).













6. Press button to show option code



7. Press button to select [BARRING]

The base can setting barring number, if the first-part digits of dial number are the same as barring number, then the dialing number will be block.

Press * to switch from [No1:] to [No4:] and button for enter, C for cancel, then select handset to active barring number.

This setting is using for barring number.

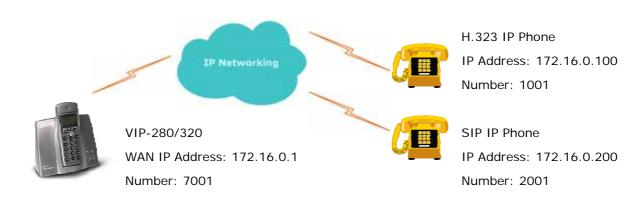


Appendix

Appendix A Voice communications

There are several ways to make calls to desired destination in VIP-320. In this chapter, we'll lead you step by step to establish your first voice communication via web browsers operations.

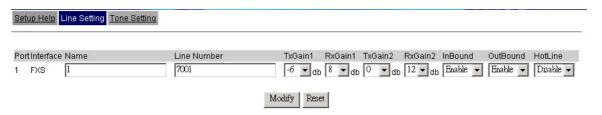
Peer-to-Peer (P2P) mode



VIP-280 / VIP-320 configurations:

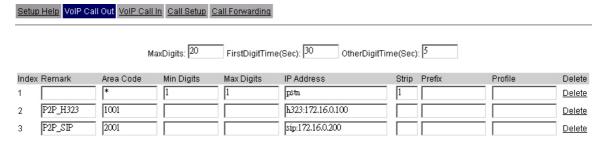
STEP 1:

Please log in machine via web browser, and select **Line Setting** in the **Line config** menu. In this Line Setting page, please insert the telephone number assigned to this line, and then the sample configuration screen is shown below (in this sample, we're using number **7001** for incoming calls).



STEP 2:

Select **VoIP Call Out** in the **Call Routing** menu; insert the values of the index number, Area Code and IP Address on the VoIP call out routing table for outgoing calls. The sample configuration screen is shown below.



When the calling party is an H.323 device, please add

a "h323:" in front of the IP address.

Such as: the destination H.323 device is 172.16.0.100, then input "h323:172.16.0.100" in the IP address column of VIP-320/VIP-280 VoIP Callout setting page

When the calling party is a SIP device, please add a "sip:" in front of the IP address.

Such as: the destination SIP device is 172.16.0.200, then input "sip:172.16.0.200" in the IP address field.

STEP 3:

(i) Hint

After the settings for the remote calling party, you may dial number 1001 to connect to the H.323 IP phone, and number 2001 to connect to the SIP IP phone.

If you're using the VIP-280, you may dial or receive the H.323 and the SIP calls at the same time.

Voice communication via SIP proxy server -SIP50



■ VIP-280 IP Address: 172.16.0.28

Line Number: 280

VIP-320 IP Address: 172.16.0.32

Line Number: 320

Machine configurations on the VIP-280/VIP-320:

STEP 1:

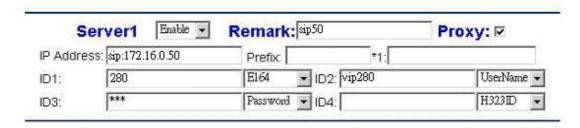
Please log in machine via web browser, and select **Register Server** setting in the **VoIP Config** menu. In this setting page, please insert the account/password information, and then the sample configuration screen is shown below (in this sample, we're using the SIP-50 as the registration server).

Register Server Status



Register Server Config

Mac: 00304F1208AA



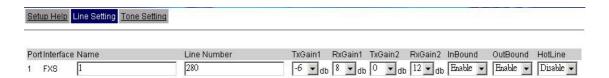
(i) Hint

When voice communication is established via "Gatekeeper", please add a "h323:" in front of the IP address. Such as: the GK IP address is 192.168.0.100, then input "h323:192.168.0.100" in the IP address.

When voice communication via the SIP proxy server, please add a "sip:" in front of the IP address/URL. Such as: the SIP-50 IP address is 192.168.0.50, then input "sip:192.168.0.50" in the IP address.

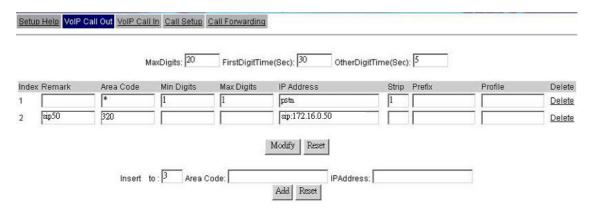
STEP 2:

Select **Line Setting** in the **Line config** menu. In this Line Setting page, please insert the telephone number assigned to this line, and then the sample configuration screen is shown below (in this sample, we're using number **320** for incoming calls).



STEP 3:

Select VoIP Call Out in the Call Routing menu; insert the values of the index number, Area Code and IP Address on the VoIP call out routing table for outgoing calls. The sample configuration screen is shown below.



STEP 4:

Repeat the same configuration steps on the VIP-280, and check the machine registration status, make sure the registrations are completed.

Test the scenario:

To verify the VoIP communication, you may make calls from SIP client (VIP-280) 280 to the SIP client (VIP-320) 320 or reversely make calls from SIP client (VIP-320) 320 to the SIP client (VIP-280) 280

Appendix B VIP-320 Specifications

Product	H.323 / SIP DECT VoIP Router	
Model	VIP-320	
Hardware		
LAN	2 x 10/100Mbps RJ-45 port	
WAN	1 x 10/100Mbps RJ-45 port	
PSTN	1 x RJ-11 connection	
DECT	1 x DECT GAP compatible base	
Standards and protocol		
Standard	H.323 version v2/v3,H.323 Fast start, and H.245 DTMF relay, SIP 2.0 (RFC3261)	
Voice codec	G.723.1 (6.3k/5.3k), G.729A, G.711 (A-law/U-law)	
Voice Standard	Voice activity detection (VAD)	
	Comfort noise generation (CNG)	
	Dynamic Jitter Buffer	
Supplementary services	Call transferring between DECT handsets	
Protocols	RFC-3261, H.323, TCP//IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS,	
	DHCP, NTP/SNTP, FTP, PPP, PPPoE	
Internet features	Built in NAT firewall, DoS (Denial of Service) protection	
	SPI (Stateful Packet Inspection) firewall	
	Policy-based LAN/WAN access control	
	Virtual server, DMZ, Remote administrator authentication	
Network and Configuration		
Access Mode	Static IP, PPPoE, DHCP	
Management	Web	
Dimension (W x D x H)	128 x 110 x 60 mm	
Operating Environment	0~40 degree C, 10~95% humidity	
Power Requirement	9V DC	
EMC/EMI	CE, FCC Class B	